



WINGS LANDING TIDAL HABITAT RESTORATION PROJECT

Suisun Marsh

TIDAL WETLAND

The Wings Landing Tidal Habitat Restoration Project (Project) is a joint effort by the California Department of Water Resources (DWR) and Natural Resources Group, Inc. to restore approximately 270 acres of managed marsh to tidal and sub-tidal marsh, to benefit native fish species. Wings Landing is located within the northern Suisun Marsh and has the location, elevation and site attributes necessary for a successful tidal marsh restoration project. Wings Landing is ideally located, adjacent to the California Department of Fish and Wildlife's (DFW) Peytonia Ecological Reserve, the Hill Slough Restoration Area and the Solano Land Trust's Rush Ranch. Existing site elevations (+3-4' MSL) are within the ideal range for successful tidal restoration. The site was reclaimed for agriculture in the late 1800's, and has been managed as the Wings Landing Duck Club since the 1940's. Prior to its conversion, the property was estuarine tidal habitat, providing tidal inundation and seasonal fresh water inundation during wet winter periods.

Wings Landing is currently disconnected from direct tidal influence and a main component of the Project will be to reconnect the adjacent subtidal channels in Boynton, Peytonia and Suisun Sloughs to the newly restored tidal and sub-tidal marsh habitat onsite. This will be accomplished by removing the existing water control structures and breaching the existing perimeter levees in multiple locations. The Project will also strategically create dendritic channels that, in addition to appropriately sized breaches, will restore full tidal exchange. Returning the site to natural tidal influence will provide increased food production for Delta Smelt, Longfin Smelt, and salmonids onsite and within the northern Suisun Marsh. DWR and Natural Resources Group, Inc. are restoring this project to help meet the 2008 U.S. Fish and Wildlife Service (USFWS) Delta Smelt OCAP Biological Opinion's (BiOp) requirement to

restore 8,000 acres of tidal wetlands in the Sacramento-San Joaquin Delta (Delta) and Suisun Marsh. The Project will also contribute to restoration requirements of the 2009 National Marine Fisheries Service (NMFS) OCAP BiOp as well as the 2009 DFW Incidental Take Permit.

The completed restoration project will be conveyed to DWR in fee title.

RESTORATION GOALS / TARGET

The goal of the Project is to restore unrestricted tidal connectivity to the interior of Wings Landing to restore tidal wetlands on the site to benefit native fish species. The project objectives are to: 1) enhance available food productivity for native fish within and adjacent to the restoration site, 2) enhance habitat appropriate for spawning and/or rearing salmonids, Delta Smelt and other native fish species, and; 3) provide connectivity to the marsh plain for migrating salmonids.

LOCATION AND LANDOWNER

Wings Landing is located within the northern Suisun Marsh adjacent to Boynton, Peytonia and Suisun Sloughs. The site is currently owned and managed by Natural Resources Group, Inc. as the Wings Landing Duck Club.

FUNDING

Fully funded by the State Water Project for all phases of the effort.



PERMITS NECESSARY

- ▶ San Francisco Regional Water Quality Control Board: Section 401 and Waste Discharge Report
- ▶ State Lands Commission: Notice of Proposed Use of State Lands
- ▶ National Historic Preservation Act: Section 106
- ▶ DFW: Streambed Alteration Agreement Section 1600; Incidental Take Permit
- ▶ U.S. Army Corps of Engineers: Nationwide 27 (404 permit)
- ▶ USFWS Endangered Species Act: Section 7
- ▶ NMFS Endangered Species Act: Section 7
- ▶ Delta Stewardship Council: Delta Plan Consistency Determination

ESTIMATED TIMELINE

- ▶ Project contract with DWR executed: August 2017
- ▶ Design and Permitting: August 2017 through 2018
- ▶ Monitoring: 2018 through 2029
- ▶ Construction Complete: 2019
- ▶ Ongoing Adaptive Management and Maintenance: 2020+

PROJECT PROPONENT

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 Division of Environmental Services
 Fish Restoration Program
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